



TITLE:

研究会報告 基研短期研究会「超低温物理の現状と将来の展望」

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CITATION:

研究会報告 基研短期研究会「超低温物理の現状と将来の展望」. 物性研究 1994, 63(3): 291-292

ISSUE DATE:

1994-12-20

URL:

<http://hdl.handle.net/2433/95427>

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研究会報告

基研短期研究会「超低温物理の現状と将来の展望」

Workshop on The Present Status and Future Prospects of
Ultra-Low Temperature Physics

(1994 年 9 月 7 日受理)

Date: May 17th and 18th, 1994
Place: Yukawa Institute for Fundamental Physics

May 17th (Tue.)

Solid ^3He and Nuclear Magnetism (Chairman : T. Shigi)

10:30-11:10	Nuclear Magnetism of Solid ^3He	D. D. Osheroff
11:10-11:30	2-Dimensional Magnetism	H. Fukuyama
11:30-11:50	Novel Susceptibility of bcc ^3He	T. Mamiya
11:50-12:10	Nuclear Magnetism in Metal	H. Suzuki

Restricted Geometries (Chairman : T. Satoh)

1:30-2:00	He Cluster	J. Northby
2:00-2:30	He in mesoscopic Pores	N. Wada
2:30-2:50	Thermal Conductivity of He film in Pores	M. Kubota
2:50-3:10	A-B transition in Confined Geometries	O. Ishikawa

Liquid ^3He (Chairman : H. Ishimoto)

3:40-4:10	Quasi-Classical Green Function Method and Application to Proximity Effect	K. Nagai
4:10-4:30	Spin-Entropy Wave in A ₁ -Phase	Y. Okuda
4:30-4:50	Zero Sound Attenuation in the Quantum Limit	K. Matsumoto
4:50-5:10	Viscosity Anomaly in Normal Fermi Liquid	A. Matsubara
6:00-	Prof. Tsuneto's Retirement Party	

May 18th (Wed.)

(Chairman : K. Yamada)

9:00-9:30	Surface State Electrons for Studying He-Surface	K. Kono
9:30-9:50	Dynamics of Quantized Vortices	M. Tsubota
9:50-10:10	Superfluid ^4He Vortices in a Torsional Oscillator	Y. Fujii
10:10-10:30	Mermin-Ho texture in a Rotating A-Phase	T. Takagi

(Chairman: T. Sôda)

10:50-11:10	Soud Attenuation in $^3\text{He-B}$ under strong Magnetic Fields	M. Ashida
11:10-11:30	Unified Approach to Roton Dynamics	H. Namaizawa
11:30-12:10	MQT in Helium System	S. Takagi

(Chairman : T. Tsuneto)

1:30-2:05	Crystal Growth	M. Uwaha
2:05-2:30	Frost Heave in ^4He	T. Mizusaki
2:30-3:00	Superconductivity of Heavy Fermion System	T. Ohmi

(Chairman : K. Miyake)

3:20-4:00	Mesoscopic Physics	Y. Nagaoka
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